Gerardo Vitale

List of Publications by Year
in descending order

44	1,247	331670 21	377865 34
papers	citations	h-index	g-index

44	44	44	1485
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Molybdenum carbide nanocatalyst for activation of water and hydrogen towards upgrading of low-quality hydrocarbons. Fuel, 2022, 322, 124291.	6.4	2
2	Synthesis and characterization of a novel nickel pillaredâ€“clay catalyst: In-situ carbon nanotubeâ€“clay hybrid nanofiller from Ni-PILC. Applied Clay Science, 2021, 205, 106064.	5.2	11
3	Molybdenum sulfide nanoparticles prepared using starch as capping agent. Redispersion and activity in Athabasca Bitumen hydrotreating. Catalysis Today, 2021, 377, 38-49.	4.4	4
4	Reply to comments on: Synthesis and characterization of a novel nickel pillared-clay catalyst: In-situ carbon nanotubeâ€“clay hybrid nanofiller from Ni-PILC. Applied Clay Science, 2021, 213, 106268.	5.2	0
5	Enhanced thermal conductivity and reduced viscosity of aegirine-based VR/VGO nanofluids for enhanced thermal oil recovery application. Journal of Petroleum Science and Engineering, 2020, 185, 106569.	4.2	13
6	O-exchange evidenced in Ce-Ni-MFI catalysts during water gas shift reaction: Use of isotopic water (50% H218O - 50% H216O). Applied Catalysis B: Environmental, 2020, 263, 118365.	20.2	0
7	Catalytic oxy-cracking of petroleum coke on copper silicate for production of humic acids. Applied Catalysis B: Environmental, 2020, 264, 118472.	20.2	22
8	Size Effects of NiO Nanoparticles on the Competitive Adsorption of Quinolin-65 and Violanthrone-79: Implications for Oil Upgrading and Recovery. ACS Applied Nano Materials, 2020, 3, 5311-5326.	5.0	8
9	Metformin Removal from Water Using Fixed-bed Column of Silica-Alumina Composite. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 597, 124814.	4.7	16
10	Naturally derived pyroxene nanomaterials: an ore for wide applications. , 2020, , 731-774.		1
11	Nanopyroxene-Based Nanofluids for Enhanced Oil Recovery in Sandstone Cores at Reservoir Temperature. Energy & Fuels, 2019, 33, 877-890.	5.1	43
12	Production of Highly Dispersed Ni within Nickel Silicate Materials with the MFI Structure for the Selective Hydrogenation of Olefins. Industrial & Engineering Chemistry Research, 2019, 58, 8597-8611.	3.7	14
13	Silica-alumina composite as an effective adsorbent for the removal of metformin from water. Journal of Environmental Chemical Engineering, 2019, 7, 102994.	6.7	51
14	Synergetic effects of cerium and nickel in Ce-Ni-MFI catalysts on low-temperature water-gas shift reaction. Fuel, 2019, 237, 361-372.	6.4	21
15	Development and characterization of novel combinations of Ceâ€Niâ€MFI solids for water gas shift reaction. Canadian Journal of Chemical Engineering, 2019, 97, 140-151.	1.7	11
16	New Insights into the Kinetics of Structural Transformation and Hydrogenation Activity of Nano-crystalline Molybdenum Carbide. Catalysis Letters, 2018, 148, 904-923.	2.6	13
17	Fixed-bed column studies of total organic carbon removal from industrial wastewater by use of diatomite decorated with polyethylenimine-functionalized pyroxene nanoparticles. Journal of Colloid and Interface Science, 2018, 513, 28-42.	9.4	40
18	Dispersed Ni-Doped Aegirine Nanocatalysts for the Selective Hydrogenation of Olefinic Molecules. ACS Applied Nano Materials, 2018, 1, 6269-6280.	5.0	19

#	Article	IF	Citations
19	Magnetic Nanostructured White Graphene for Oil Spill and Water Cleaning. Industrial & Engineering Chemistry Research, 2018, 57, 13065-13076.	3.7	18
20	Mechanism of Hierarchical Porosity Development in Hexagonal Boron Nitride Nanocrystalline Microstructures for Biomedical and Industrial Applications. ACS Applied Nano Materials, 2018, 1, 4491-4501.	5.0	9
21	Experimental and computational modeling studies on silica-embedded NiO/MgO nanoparticles for adsorptive removal of organic pollutants from wastewater. RSC Advances, 2017, 7, 14021-14038.	3.6	18
22	Nanosize effects of NiO nanosorbcats on adsorption and catalytic thermoâ€oxidative decomposition of vacuum residue asphaltenes. Canadian Journal of Chemical Engineering, 2017, 95, 1864-1874.	1.7	25
23	Preparation and characterization of polyethylenimine-functionalized pyroxene nanoparticles and its application in wastewater treatment. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2017, 525, 20-30.	4.7	31
24	Catalytic Steam Gasification of Athabasca Visbroken Residue by NiOâ€“Kaolin-Based Catalysts in a Fixed-Bed Reactor. Energy & Fuels, 2017, 31, 7396-7404.	5.1	4
25	Polyethylenimine-functionalized pyroxene nanoparticles embedded on Diatomite for adsorptive removal of dye from textile wastewater in a fixed-bed column. Chemical Engineering Journal, 2017, 320, 389-404.	12.7	90
26	X-ray Photoelectron Spectroscopy Analysis of Hydrotreated Athabasca Asphaltenes. Energy & Fuels, 2017, 31, 10706-10717.	5.1	31
27	Nanopyroxene Grafting with Î²-Cyclodextrin Monomer for Wastewater Applications. ACS Applied Materials & Interfaces, 2017, 9, 42393-42407.	8.0	18
28	Effects of the size of NiO nanoparticles on the catalytic oxidation of Quinolin-65 as an asphaltene model compound. Fuel, 2017, 207, 423-437.	6.4	27
29	The effect of the nanosize on surface properties of NiO nanoparticles for the adsorption of Quinolin-65. Physical Chemistry Chemical Physics, 2016, 18, 6839-6849.	2.8	43
30	Maghemite nanosorbcats for methylene blue adsorption and subsequent catalytic thermo-oxidative decomposition: Computational modeling and thermodynamics studies. Journal of Colloid and Interface Science, 2016, 461, 396-408.	9.4	52
31	Effect of nanosized and surface-structural-modified nano-pyroxene on adsorption of violanthrone-79. RSC Advances, 2016, 6, 64482-64493.	3.6	25
32	Adsorptive removal of dyes from synthetic and real textile wastewater using magnetic iron oxide nanoparticles: Thermodynamic and mechanistic insights. Canadian Journal of Chemical Engineering, 2015, 93, 1965-1974.	1.7	47
33	Preparation of NiMoS nanoparticles for hydrotreating. Catalysis Today, 2015, 250, 21-27.	4.4	52
34	Synthesis of nanocrystalline molybdenum carbide materials and their characterization. Catalysis Today, 2015, 250, 123-133.	4.4	50
35	Hydrotalcite type materials as catalyst precursors for the Catalytic Steam Cracking of toluene. Fuel, 2015, 154, 71-79.	6.4	19
36	Catalytic steam gasification of n-C5 asphaltenes by kaolin-based catalysts in a fixed-bed reactor. Applied Catalysis A: General, 2015, 507, 149-161.	4.3	12

#	Article	IF	Citations
37	Formation of Î²-Mo2C below 600 Â°C using MoO2 nanoparticles as precursor. Journal of Catalysis, 2015, 332, 83-94.	6.2	7
38	Comparing kinetics and mechanism of adsorption and thermo-oxidative decomposition of Athabasca asphaltenes onto TiO2, ZrO2, and CeO2 nanoparticles. Applied Catalysis A: General, 2014, 484, 161-171.	4.3	84
39	One-pot preparation and characterization of bifunctional Ni-containing ZSM-5 catalysts. Applied Catalysis A: General, 2013, 452, 75-87.	4.3	43
40	In situ time-resolved X-ray diffraction study of the synthesis of Mo₂C with different carburization agents. Canadian Journal of Chemistry, 2013, 91, 573-582.	1.1	22
41	Effect of Al content on phase transitions of zeolite MEL. Microporous and Mesoporous Materials, 2009, 121, 26-33.	4.4	19
42	Neutron Diffraction and Computational Study of Zeolite NaX:Â Influence of SIIIâ€˜ Cations on Its Complex with Benzene. Journal of Physical Chemistry B, 1997, 101, 4559-4564.	2.6	164
43	Localization of Adsorbed Cyclohexane in the Acid Form of Zeolite Y. A Powder Neutron Diffraction and Computational Study. Journal of Physical Chemistry B, 1997, 101, 9886-9891.	2.6	24
44	Fe-pillared clays: a combination of zeolite shape selectivity and iron activity in the CO hydrogenation reaction. Journal of Molecular Catalysis A, 1996, 107, 175-183.	4.8	24